

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P520683

Luminaire Tested: **8WSLA-150-L840-UPL8-UNV-U**

Issue Date: 5/3/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P520683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 8WSLA-150-L840-UPL8-UNV-U
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

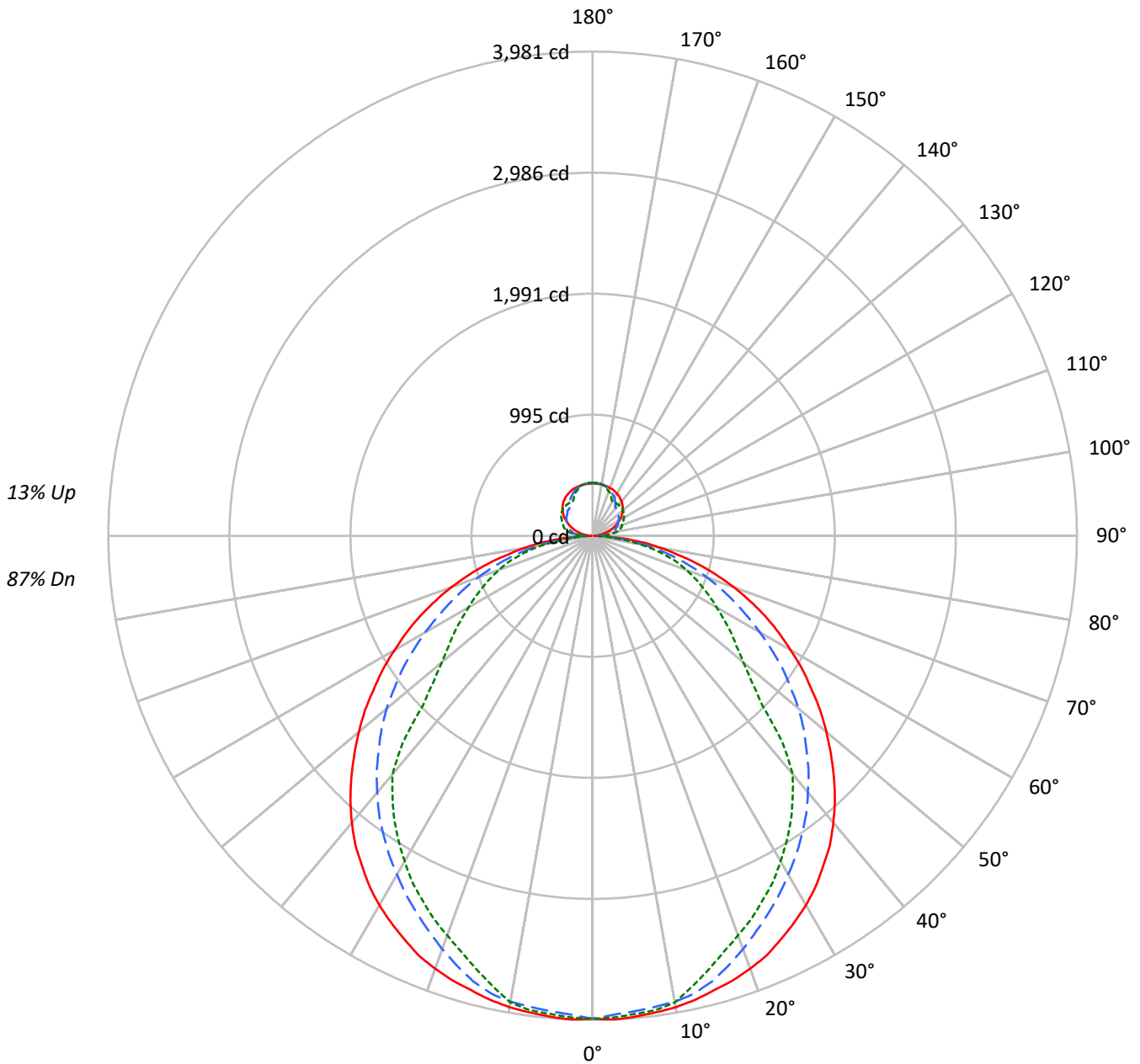
Lumens per Lamp: N/A
Luminaire Lumens: 12355.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 93.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P520683

CATALOG NUMBER: 8WSLA-150-L840-UPL8-UNV-U

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10683	10683	10683
5°	10724	10601	10662
10°	10754	10629	10645
15°	10773	10567	10280
20°	10845	10354	10011
25°	10872	10159	9820
30°	10898	9993	9602
35°	10865	9852	9345
40°	10816	9672	8989
45°	10674	9456	7500
50°	10498	9254	6767
55°	10291	8951	6512
60°	10114	8547	6333
65°	9966	8183	6329
70°	9707	7865	6426
75°	9265	7483	6473
80°	8675	6727	6019
85°	7935	4761	4057



TEST NUMBER: P520683

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.8	3.0
10°-20°	1068.5	8.6
20°-30°	1596.5	12.9
30°-40°	1905.8	15.4
40°-50°	1906.0	15.4
50°-60°	1649.5	13.4
60°-70°	1266.1	10.2
70°-80°	775.8	6.3
80°-90°	218.4	1.8
90°-100°	123.4	1.0
100°-110°	195.9	1.6
110°-120°	229.1	1.9
120°-130°	247.3	2.0
130°-140°	243.7	2.0
140°-150°	215.6	1.7
150°-160°	177.4	1.4
160°-170°	118.7	1.0
170°-180°	41.3	0.3
0°-30°	3040.9	24.6
0°-40°	4946.7	40.0
0°-60°	8502.2	68.8
0°-90°	10762.5	87.1
90°-120°	548.4	4.4
90°-150°	1255.0	10.2
90°-180°	1592.0	12.9
0°-180°	12355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3970	3970	3970	3970	3970	
5°	3970	3958	3924	3953	3947	378
15°	3867	3861	3793	3724	3690	1094
25°	3662	3616	3422	3330	3307	1689
35°	3307	3222	2999	2890	2845	2071
45°	2805	2725	2485	2262	1971	2163
55°	2194	2142	1908	1525	1388	1966
65°	1565	1508	1285	1034	994	1546
75°	891	845	720	623	623	940
85°	257	211	154	131	131	269
90°	11	40	63	80	86	18
95°	46	97	131	137	137	45
105°	131	137	194	228	240	138
115°	217	183	228	263	280	212
125°	291	234	263	303	314	260
135°	348	314	291	320	337	269
145°	388	371	326	320	331	242
155°	411	406	383	366	360	190
165°	423	428	417	417	417	120
175°	428	434	434	440	440	41
180°	434	434	434	434	434	



TEST NUMBER: P520683

CATALOG NUMBER: 8WSLA-150-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3970.0	3970.0	3970.0	3970.0	3970.0
2.5°	3981.4	3970.0	3941.4	3970.0	3964.2
5°	3970.0	3958.5	3924.3	3952.8	3947.1
7.5°	3952.8	3941.4	3907.1	3941.4	3935.7
10°	3935.7	3924.3	3890.0	3912.8	3895.7
12.5°	3907.1	3895.7	3855.7	3827.1	3792.9
15°	3867.1	3861.4	3792.9	3724.3	3690.1
17.5°	3832.9	3815.7	3707.2	3627.2	3587.2
20°	3787.2	3758.6	3615.8	3524.4	3495.8
22.5°	3735.8	3690.1	3518.7	3433.0	3410.2
25°	3661.5	3615.8	3421.6	3330.2	3307.3
27.5°	3587.2	3530.1	3324.5	3233.1	3210.2
30°	3507.3	3427.3	3215.9	3130.3	3090.3
32.5°	3415.9	3335.9	3113.1	3016.0	2970.3
35°	3307.3	3221.7	2998.9	2890.4	2844.7
37.5°	3204.5	3113.1	2884.6	2764.7	2701.9
40°	3078.9	2987.5	2753.3	2621.9	2559.0
42.5°	2947.5	2861.8	2627.6	2467.7	2313.4
45°	2804.7	2724.7	2484.8	2262.0	1970.7
47.5°	2656.2	2587.6	2353.4	2050.7	1770.8
50°	2507.6	2439.1	2210.6	1850.7	1616.5
52.5°	2359.1	2302.0	2050.7	1685.1	1490.9
55°	2193.5	2142.1	1907.9	1525.1	1388.1
57.5°	2045.0	1993.5	1742.2	1393.8	1279.5
60°	1879.3	1833.6	1588.0	1262.4	1176.7
62.5°	1725.1	1673.7	1433.8	1148.1	1085.3
65°	1565.1	1508.0	1285.2	1033.9	993.9
67.5°	1399.5	1342.4	1142.4	931.1	908.2
70°	1233.8	1188.1	999.6	828.3	816.8
72.5°	1062.5	1011.1	856.8	731.2	731.2
75°	891.1	845.4	719.7	622.6	622.6
77.5°	714.0	691.2	576.9	508.4	514.1
80°	559.8	531.2	434.1	388.4	388.4
82.5°	411.3	377.0	291.3	257.0	268.5
85°	257.0	211.3	154.2	131.4	131.4
87.5°	80.0	62.8	45.7	51.4	51.4
90°	11.4	40.0	62.8	80.0	85.7
92.5°	28.6	74.3	91.4	108.5	114.2
95°	45.7	97.1	131.4	137.1	137.1
97.5°	62.8	108.5	159.9	182.8	182.8
100°	85.7	114.2	171.4	205.6	211.3
102.5°	108.5	125.7	182.8	217.1	228.5
105°	131.4	137.1	194.2	228.5	239.9



TEST NUMBER: P520683

CATALOG NUMBER: 8WSLA-150-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.2	171.4	217.1	257.0	268.5
115°	217.1	182.8	228.5	262.8	279.9
117.5°	234.2	199.9	239.9	274.2	285.6
120°	251.3	211.3	245.6	285.6	297.0
122.5°	274.2	222.8	257.0	291.3	308.5
125°	291.3	234.2	262.8	302.7	314.2
127.5°	308.5	257.0	268.5	308.5	319.9
130°	319.9	279.9	274.2	314.2	325.6
132.5°	337.0	297.0	279.9	319.9	331.3
135°	348.4	314.2	291.3	319.9	337.0
137.5°	359.9	331.3	291.3	319.9	331.3
140°	371.3	348.4	297.0	319.9	331.3
142.5°	377.0	359.9	302.7	319.9	331.3
145°	388.4	371.3	325.6	319.9	331.3
147.5°	394.1	382.7	342.7	319.9	331.3
150°	399.9	394.1	359.9	325.6	325.6
152.5°	405.6	399.9	371.3	348.4	337.0
155°	411.3	405.6	382.7	365.6	359.9
157.5°	417.0	417.0	394.1	382.7	377.0
160°	417.0	422.7	405.6	394.1	388.4
162.5°	422.7	428.4	411.3	405.6	399.9
165°	422.7	428.4	417.0	417.0	417.0
167.5°	428.4	434.1	428.4	422.7	422.7
170°	428.4	434.1	428.4	428.4	428.4
172.5°	428.4	434.1	434.1	434.1	434.1
175°	428.4	434.1	434.1	439.8	439.8
177.5°	428.4	434.1	434.1	434.1	434.1
180°	434.1	434.1	434.1	434.1	434.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	154.2	148.5	199.9	239.9	251.3
110°	171.4	159.9	211.3	245.6	257.0



(END OF REPORT)